



### UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/857,311	1	07/23/2001	Heinz Grosswang	21923 4851		
535	7590	04/08/2003				
THE FIRM			EXAMINER			
5676 RIVERDALE AVENUE PO BOX 900				SOUW, BE	SOUW, BERNARD E	
RIVERDALI	E (BRON	X), NY 10471-0900		ART UNIT PAPER NUMBER		
				2881		
				DATE MAILED: 04/08/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

				<i>b</i> .				
		Application N	Applicant(s)	<b>7</b> /C				
	Office Action Summer	09/857,311	GROSSWANG ET AL.					
•	Office Action Summary	Examiner	Art Unit					
The MAN INC. DATE AND		Bernard E Souw	2881					
Period for F	he MAILING DATE of this communication app Reply	pears on the cover sheet with the c	correspondence address					
THE MA - Extension after SIX - If the peri - If NO peri - Failure to - Any reply	TENED STATUTORY PERIOD FOR REPLY ILING DATE OF THIS COMMUNICATION. Is of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. Of for reply specified above is less than thirty (30) days, a reply of for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute, received by the Office later than three months after the mailing tent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication D (35 U.S.C. 6 133)	n.				
_	espansive to communication(s) filed on 12 F	Sobruani 2002 (nanor no 44/0)						
· <u> </u>	esponsive to communication(s) filed on $\underline{13 F}$ his action is <b>FINAL</b> . 2b) $\Box$ Th	is action is non-final.						
,	ince this application is in condition for allowa			•_				
cl	osed in accordance with the practice under i	Ex parte Quayle, 1935 C.D. 11, 4	osecution as to the merits   53 O.G. 213.	IS				
Disposition								
	aim(s) 32-44 and 46-62 is/are pending in the							
	Of the above claim(s) is/are withdray	vn from consideration.						
	aim(s) is/are allowed.							
6)⊠ Cla	Claim(s) <u>32-44 and 46-62</u> is/are rejected.							
	im(s) <u>51,56,59,60 and 62</u> is/are objected to.							
	nim(s) are subject to restriction and/or	election requirement.						
Application	•							
	specification is objected to by the Examiner							
	drawing(s) filed on <u>23 July 2001</u> is/are: a)⊠	•						
	pplicant may not request that any objection to the proposed drawing correction filed on	e drawing(s) be held in abeyance. Se is: a) ☐ approved b) ☐ disappro	• •					
	approved, corrected drawings are required in rep	, , , , , , , , , ,_	ved by the Examiner.					
	oath or declaration is objected to by the Exa	•						
	er 35 U.S.C. §§ 119 and 120							
=	knowledgment is made of a claim for foreign	priority under 35 H.S.C. & 110(a)	\ (d) or (f)					
	II b) Some * c) None of:	priority under 33 0.3.0. § 119(a)	)-(a) or (i).					
	Certified copies of the priority documents	have been received						
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_	application from the International Bur the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	-					
14) 🗌 Ackn	owledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e)	) (to a provisional application	on).				
	The translation of the foreign language proviousledgment is made of a claim for domestic	• •						
Attachment(s)								
?) 🔲 Notice of I	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) n Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)					

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#### **DETAILED ACTION**

#### **Amendments**

1. The Amendment C, Paper No. 11/C, filed on 02/28/2003, in response to the Office Action dated 08/14/2002 has been entered. The present Office Action is made with all the suggested amendments being fully considered.

Claim 45 has been cancelled.

An Abstract has been included.

- 2. The Supplemental Amendment D, Paper No. 12/D, filed on 03/18/2003 in addition to the previously received, but in incomplete condition, Amendment C (Paper No. 11/C) has been received. No effective change has been made.
- 3. The Amendment B, filed on 11/29/2001, Paper No.8/B, has been previously entered, and formed the body of the claims subject to the first Office Action dated 08/05/2002.

## Examiner's Correction of Previous Office Action

4. The identification of claim 49 previously rejected under a §112 based on the use of the word "training" was in error. The correct claim number should be claim 32. (Claim 54, rejected under the same statute, was correct).

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#### **Previous Objections Removed**

5. An abstract of the disclosure having been provided in paper No.11/C, the previous objection is now overcome.

6. Claim 51 having been properly amended, the previous objection is now removed.

#### Notice of Non-Compliance

7. The Amendments C and D are *objected to due to <u>Non-Compliance</u>* with regard to previous objections to the disclosure readily raised in the first Office Action with regard of the following informalities:

- Pg.8/line 7" The phrase "An *especially advantageously* embodiment) is grammatically wrong.
- Part of the disclosure on pg.13/II.20-21 has been objected to, because the measuring window 5 should **not** "lie in, shortly ahead of, or behind the focal plane of the cylindrical lens" as recited, and also illustrated in Fig.2. More plausible is the next recitation on pg.13/II.21-26, "when the latter is not a semi circle but rather has a circularly segmental form, i.e. ....". It is well known to one of ordinary skill in the art that the focal plane of a lens can either lie outside of the lens material/body, or if the lens has a thick, hemispherical or semi cylindrical form then within the lens body at a distance r/n below or beyond the lens dissecting plane, as disclosed by Schultz et al. (USPAT #6180415 B1).
- Pg.16/line 12, "region 31-36" should have read "region 33-36".

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- Pg.16/line 17 recites "measuring window 5" in reference to Fig.6. However, there is no numeral 5 in Fig.6.
- Pg.18/line 24, "the fourth light source 40" should have read "the fourth light source 45".
- Pg.18/line 27, "the third region 45" should have read "the third region 35".

  These objections have not been responded to in any of the amendments sofar received.
- The previous rejections under 35 USC §112, 2<sup>nd</sup> paragraph, of claims 51, 56, 59, 60 and 62 as having no antecedent basis for the limitation "*the emplacement surface*" have not been addressed, nor are the corresponding claims amended. The previous §112 rejections of claims 51, 56, 59, 60 and 62 are therefore reinstated.

#### Response to Applicant's Arguments

- 8. Applicant's arguments filed on 02/13/2003 (Amendment C, paper no. 11/C) have been fully considered, but they are not persuasive. The following is Examiner's response to Applicant's arguments.
- (a) As demonstrated above, Applicant's has misunderstood Examiner's objection of the use of the words "to train", "training" and "which is trained" in the specification and all the § 112 rejections based on the same reason in the first Office Action. In all the § 103 rejections stated in the first Office Action, the use of the forewords "Insofar as the Examiner can ascertain beyond the above 35 U.S.C. § 112 rejections" clearly indicates that the Examiner has overridden the § 112 rejections in the same (i.e., the first) Office Action. The above quotation from previous Examiner's statement regarding the use of the word "to train", "which is trained", and other similar terms, clearly demonstrates that

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the Examiner has correctly understood the meaning of the words, despite their § 112 rejections/objections raised in the first Office Action.

In this regard, the § 103 rejections made in the first office Action also have unambiguously demonstrated the correctness of Examiner's understanding and interpretation of the terminologies being used in the specification and in the claims. Should the Applicant disagrees, Applicant is welcome to argue against the § 103 rejections, and not against a semantic dispute, whose meaning is clear, although the use of the terminology has been objected to.

the § 103 rejections stated in the first Office Action, as recited in the Amendment C (Paper No.11/C) on pg.5, "Since the Examiner appears to have misinterpreted the terminology used in the specification and the claims, applicants request reconsideration of all grounds of rejection here including those under 35 USC 103." This request is entirely based on Applicant's misunderstanding of Examiner's position, as has been clearly demonstrated above. Since this misinterpretation should not have been made in the first place, as demonstrated above, and consequently, Applicant should have argued against Examiner's § 103 rejections, instead of pursuing a semantic argument, Applicant's request for reconsideration, without making any amendment to the claims, is herewith declined. All claim rejections are thus proper. They are reinstated in the following, where appropriate with the previous forewords "Insofar as the Examiner can ascertain beyond the above 35 U.S.C. § 112 rejections" removed, because their previous rejections under 35 U.S.C. § 112 second paragraph have been withdrawn.

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# 35 USC § 112 Claim Rejections Withdrawn

Claims 32-47, 49-56 having been properly amended, their previous rejections 9. under 35 U.S.C. 112, second paragraph, for reciting claim language that are deemed to be indefinite, are now withdrawn.

Especially claim 32, reciting the step of "training" ... light beams ... onto a measuring window", and claim 54, reciting the term "a second light source which is trained", both having been correctly understood/interpreted by the Examiner as already stated in the first Office Action by the wording "Insofar as the Examiner can ascertain beyond the previous §112 rejections", their previous rejections under 35 U.S.C. 112, second paragraph, are now withdrawn, because the meaning of the terminology is clear and properly understood, despite Applicant's refusal to change the terminology.

# 35 USC § 112 Claim Rejections Reinstated

Claims 51, 56, 59, 60 and 62 stand rejected under 35 USC § 112, 2<sup>nd</sup> paragraph, 10. for reciting the limitation "the emplacement surface", which has no antecedent basis, as already stated in the first office Action.

# Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 11. obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 32-34, 36, 46, 47, 54, and 61, and insofar the Examiner can ascertain beyond the above §112 rejections, also claims 51, 56, 59, 60 and 62, *stand rejected* under 35 U.S.C. 103(a) as being unpatentable over Haslop et al. (USPAT #4,296,326) in view of Baltes et al. (USPAT #4,537,504) and Stein (USPAT #5,436,716).

- 12. Regarding claim 32, Haslop et al. disclose in Fig.1 a device for *inspecting* security marks by visual verification of the angle-dependent scattering behavior of a security object, comprising:
- a holding device 2 (having a holding surface 12) which has a measuring window (not numbered) which can be brought into a predetermined relative position to a security object to be verified (by moving the drum 2) and an observation window (front end of light guide arrays 15 and 16) that can be viewed by an observer (from the rear end of light guide arrays 15 and 16), as recited in Col.3/II.53-68 and Col.4/II.1-9. Applicant's term "observation window" is here interpreted as being identical to the "viewing component" used by Haslop et al., since a "viewing component" inherently must have a "window" to view the illuminated area, as implicated in Col.4/II.18-22 (more accurate terminology is rendered obvious by Stein, see below);
- a light feed 12 (carried by the holding device, not shown) and directing parallel light beams (through 12) at a predetermined angle  $\alpha$  onto the measuring window (unlabeled on the drum's surface N), as recited in Col.4/6-15; and
- a light guide device 15 or 16 (carried by the holding device, not shown) and capturing a plurality of light beams outputted from a point of the measuring window at

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different angles ( $\beta_1$ ,  $\beta_2$ ), as recited in CoI.4/II.16-22, and displaying them in parallel or convergingly in the observation window.

However, Haslop's light feed is directed at a predetermined angle  $\alpha$ =0° onto the measuring window, and Haslop's light guides are not specifically arranged to capture a plurality of light beams at different angles ( $\beta_1$ ,  $\beta_2$ ). Further, Haslop et al. do not display the light outputs, neither parallel nor convergingly, in an observation window.

Baltes et al. disclose a similar inspection device as shown in Fig.7. The embodiment shown in Fig.7 has light feed 7 that is directed to the object surface 2 at an angle ( $\alpha$ ) different than  $0^0$ , and Baltes' light guides 10 and 11 are directed under observation angle  $\beta_1$  that is different than the other observation angle  $\beta_2$ .

It would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to modify Haslop's invention with the teaching of Baltes et al., i.e., to direct the illuminating light at an angle  $\alpha$  different than  $0^0$  and observe the scattered light from a plurality of different angles  $\beta_1$ ,  $\beta_2$ , etc., since such a plurality of angles enhances the unique characteristics of the security feature(s) to be verified and validated.

However, Haslop et al. as modified by Baltes et al. do not display the light outputs in an observation window, neither parallel nor convergingly. Stein invents an apparatus shown in Fig.1 and 2 for testing objects such as security documents. Stein's apparatus is equipped with an *observation window*, as recited in Col.4/II.32-48 referring to viewing window B illustrated in detail in Fig.2. As shown in Fig.1 and 2, Stein

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displays the light outputs convergingly in the observation window onto a detector 5, or parallel to an observer at the site of the filter 7.

It would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to further combine the invention of Haslop et al. as modified by Baltes et al. with Stein's teaching to replace Haslop's narrow viewing angle light guides 15 & 16 with Stein's "light guide" that leads into an observation window, since the latter has a large viewing angle that allows the use of a detector array, or a TV camera, as known in the art.

- 13. Regarding claims 33 and 34, one of ordinary skill in the art would certainly know that the relative positions of the light feed and the light guide devices are completely irrelevant for the function of the apparatus, as implicated in Baltes's Fig.7, showing light guide 11 on the same side as the light feed 7 (with respect to normal to object surface 2), whereas light guide 10 is located on the opposite side of the light feed 12.
- 14. Regarding claim 36, Haslop's light feed 12 has a light source 10, as recited in Col.4/II.6-15.
- 15. Regarding claim 46, Haslop's light guides 15 & 16 shown in Fig.1 as modified by Baltes's light guides 10 & 11 shown in Fig.7 are respectively oriented at different angles  $\beta_1$ ,  $\beta_2$ .

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- 16. Regarding claim 47, Baltes's light guides 10 & 11 have their ends open adjacent to one another in the observation window 25 represented by two detectors 26 & 27, as shown in Fig.7 and recited in Col.7/II.44-55. Although Baltes's light guides 10 & 11 consist of more components than Applicant's, and Baltes's purpose of using two detectors 26 & 27 is different than Applicant's, Baltes's apparatus as a whole and in general would do what the Applicant is trying to do with his claimed invention. Thereby the components which are not needed can be simply discarded.
- 17. Insofar as the Examiner can ascertain beyond the above 35 U.S.C. § 112 rejection(s), the addition of a housing in claim 51 is a pure matter of design choice, which is not patentable because it only involves routine skill in the art. In any case, a housing is shown in Haslop's Fig.7 and Fig.1 by numerals 9 and 9A, as recited in Col.4/line 7 and line 30.

The recitation of the first and second regions is disclosed by Haslop et al. in Fig.1 by the additional apparatus 5 and/or 17, or in Fig.7 by the a duplicate of device 8 viewing a second region (not numbered), as recited in Col.6/II.9-17, whereas the step of shifting the position is inherent to the function of drum 2 as a holder and object transporter. Again, the fact that Haslop's purpose of adding a second region (with or without a duplicate viewing device) is different than Applicant's, is irrelevant, as already described above.

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The relative position of Haslop's second region (or measuring window) with respect to the first region (window) is also irrelevant, since both alternatives can be made available for viewing by simply shifting their positions using the drum 2.

The recitation of an IR camera targeting the second region is rendered obvious by Haslop's second viewing system shown in Fig.7, which may be equipped with an IR camera instead of PM1A and PM2A, just by virtue of routine skill in the art.

- 18. Regarding claim 54, Haslop's apparatus shown in Fig.7 has a second light source 10A.
- 19. Regarding claim 56, insofar as the Examiner can ascertain beyond the above 35 U.S.C. § 112 rejection, (Haslop's 'second' surface viewed by device 5 (and/or18) comprising a third (and 4<sup>th</sup>) light source in Fig.1 an/or Fig.7 is permeable, as is self obvious in the figure, and also recited in Col.4/II.30-36, characterized by the word "transmission".
- 20. Insofar as the Examiner can ascertain beyond the above 35 U.S.C. § 112 rejection of claim 59, the addition of the third region with a housing having a fourth light source is shown by Haslop et al. in Fig.7, showing four illumination & viewing devices equipped with housings and light sources, whereas a fourth light source having a significant proportion of its radiation in the ultraviolet light range is disclosed by Haslop et al. in Col.4/II.9-13.

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- 21. The limitations of claims 60-61 are pure matters of design choice well known in the art, and are therefore unpatentable for involving only routine skills in the art.
- 22. Regarding claim 62, insofar as the Examiner can ascertain beyond the above 35 U.S.C. § 112 rejection, the recitation of a fourth region with an inductive sensor is also a routine matter of design choice, in the case that the device is designed to be used for inspecting security objects that is marked by magnetic tags, such as magnetic cards. Thus, claim 62 is unpatentable for containing limitations that are pure matters of design choice well known within skill in the art.
- 23. Claims 35, 37-41, 52 and 53 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Haslop et al. in view of Baltes et al. and Stein, as applied to claims 32, 36, and 51 above, and further in view of Chapman et al. (USPAT #4,650,320).

Haslop et al. as modified by Baltes et al. and Stein, recite all the limitations of claims 35, 37-41, 52 and 53, as already applied to the respective parent claims 32, 36, and 51 above, except for additional recitations that are rendered obvious by Chapman et al., to be addressed individually as follows:

24. Regarding claim 35, to use a viewing screen to observe the scattered light beams is as trivial as also inherent to Haslop's use of arrays of light guides 15 and 16 arranged in ribbon formations, the latter recited in Col.4/II.17-22. Furthermore, using a

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viewing screen to observe the scattered light beams is technologically more primitive than Haslop's method of using arrays of light guides 15 and 16, or a detector array as disclosed by Chapman et al. in numeral 7 of Fig. 1, recited in Col.3/II.57-62, or a CCD camera or a TV camera connected to a computer, as known in the art.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a viewing screen as a replacement of Chapman's photodiode array 7 in Fig.1, since a viewing screen is an outdated viewing means more simple and more primitive than a photodiode array. To use a technologically backward version of a well-known method used in the prior art cannot be claimed as an invention.

25. Regarding claims 37 and 38, the use of a white light source (claim 37) is disclosed by Chapman et al. in Col.3/II.67-68 and Col.4/II.1-4, and the use of a light emitting diode (LED) is disclosed by in Col.2/II.33-34.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a white light source and/or a LED as taught by Chapman et al., in order to have a wide flexibility of viewing scattering characteristics of different wavelengths, including characteristic fluorescence of a security mark, thus improving the security verification or validation method. Chapman's purpose of using an LED may be different than Applicant's, but LEDs are known as being commercially available also in white, thus representing Chapman's white light source.

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26. Regarding claim 39, the use of ambient light as an alternative for white light is well-known in the art. As matter of fact, ambient light, although white, can not be controlled regarding intensity, spectral distribution, and angular distribution, and hence, providing a less desirable method, while technologically more primitive, than using an artificial source of white light. By all means, the use of a technologically backward

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use ambient light as a replacement for white light source as taught by Chapman et al., in order to be able to operate the device without electricity.

version of a well-known method in the prior art cannot be claimed as an invention.

- 27. The limitation of claim 40 is trivial, because a "light feed" is understood by those ordinarily skilled in the art as "being channeled through a light guide". Furthermore, the specification does not disclose any structural distinction between the two.
- 28. Regarding claim 41, Stein's light guide 10 shown in Fig.2 is a collecting lens and Stein's measuring window is located on the holding plane1 lying in a region of a focal plane of the collecting lens 10, as recited in Col. 4/II.20-31.
- 29. Regarding claims 52 and 53, Chapman's filter 5 in Fig.1 is a blocking filter for the visible range, whereas an infrared-sensitive CCD camera, as a specific form of photodiode array 7, is understood in the art as a black white camera. The use of a

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monitor connected to the output of the IR camera of claim 53 is inherent to the use of a

CCD camera.

30. Claims 48, 49 and 50 stand rejected under 35 U.S.C. 103(a) as being

unpatentable over Haslop et al. in view of Baltes et al. and Stein, as applied to claim 32

above, and further in view of Wang et al. (USPAT #5,767,980).

Haslop et al. as modified by Baltes et al. and Stein show all the limitations of

claims 48, 49 and 50, as applied to claim 32 above, except the recitation of a few

additional limitations all rendered obvious by Wang et al., to be individually addressed in

the following:

31. Regarding claim 48, the additional limitation of using two devices of claim 32 is

rendered obvious by Wang et al. in Fig.2 by numerals 18 and 20 illuminating test object

14 and reference object 38, respectively, as disclosed in Col.4/II.50-59. The specific

use of Wang's two-device system for reference and test objects, respectively, is

expressly recited in Col.7/II.25-31 with reference to Fig.11.

32. Regarding claim 49, the limitation of a *receiver* (=object holder) for the reference

is inherent in Wang's in the second apparatus. As a matter of fact, to add a second

apparatus to simultaneously view a reference paper is not only expensive, but also

technologically more backward than using modern computers to store the reference

data and recall it back on the screen anytime it is needed for comparison. A

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technologically backward version of a well-known method used in the prior art cannot be

claimed as an invention.

The recitation of an additional abutment in claim 49 for positioning a security

object to be validated is a mere matter of design choice, which is not patentable

because it only involves routine skill in the art.

33. Specifically regarding claim 50, Haslop's receiver (=document holder) comprises

a drum, as shown in numerals 3 (or 2) in Fig.1, as already recited above.

34. Claims 55, 57 and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Haslop et al. in view of Baltes et al., and Stein, as applied to claim 54 above, and

further in view of Cottingham et al. (USPAT # 4,029,418).

Haslop et al. as modified by Baltes et al. and Stein show all the limitations of

claims 55, 57 and 58, as previously applied to claim 54, except for a few additional

limitations that are to be individually addressed in the following, all being rendered

obvious by Cottingham et al.

35. Regarding claims 55 and 58, the recitation of a glow filament lamp is a pure

matter of design choice that is entirely within skill in the art, but anyway, also disclosed

by Cottingham in light source 33 in Fig.2, which is a glow filament lamp, as recited in

Col.3/II.31-38.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a glow filament lamp for illuminating the test object, since a glow filament lamp has a significant part of its radiation in the visible light range as taught by Cottingham et al., in order to have a wide flexibility of viewing scattering characteristics of different wavelengths, including characteristic fluorescence of a security mark, thus improving the security verification or validation method.

36. Regarding claim 57, the recitation of a light source having a significant proportion of its radiation in the visible light range is a pure matter of design choice that is entirely within skill in the art, and furthermore, also covered by Cottingham's light source 33 in Fig.2, which is a glow filament lamp, as recited in Col.3/II.31-38.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a light source having a significant part of its radiation in the visible light range as taught by Cottingham et al., in order to have a wide flexibility of viewing scattering characteristics of different wavelengths that will improve the security verification or validation method.

37. Claims 42-44 *stand rejected* under 35 U.S.C. 103(a) as being unpatentable over Haslop et al. in view of Baltes et al., Stein, and Chapman et al., as applied to claim 41 above, and further in view of Bercovitz (USPAT #5,034,616).

Haslop et al. as modified by Baltes et al., Stein, and Chapman et al. show all the limitations of claims 42-44, as previously applied to the parent claim 41, except for

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additional recitations that are all rendered obvious by Bercovitz et al. , to be addressed

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individually as follows:

38. Regarding claim 42, Bercovitz's collecting lens 9 shown in Fig.1 is a cylindrical

lens, as recited in Col.2/II.34-36.

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to use a cylindrical collecting lens as taught by Bercovitz, since

such a lens would better match the string- or strip-like geometry of security marks, e.g.,

the security thread in a bank note.

39. Regarding claim 43, the limitation of a collecting lens configurated as a semi

cylinder is already encompassed in the rejection of claim 42 above, whereas -- insofar

as the Examiner can ascertain beyond the above 35 U.S.C. § 112 rejection --, the

limitation that the measuring window is located at a small distance from the flat side of

the semi cylinder lens is self-obvious in Bercovitz's Fig.1.

40. The limitation of claim 44 that the light guide is embedded in the semi cylinder is

disclosed by Bercovitz in light guide 4 being "embedded" in the semi cylinder lens 9 (or

vice versa), as is self-obvious in Fig.1.

Final Rejection

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41. Applicant's amendments and arguments necessitated the new ground(s) of rejection presented in this Office Action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

42. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard E Souw whose telephone number is 703 305 0149. The examiner can normally be reached on Monday thru Friday, 9:00 am to 5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R Lee can be reached on 703 308 4116. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872 9318 for regular communications and 703 872 9319 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0956.

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March 25, 2003